

# Lipids Review Worksheet

Name: \_\_\_\_\_

1. What elements do lipids contain?
2. How can you tell a lipid from a carbohydrate from its molecular formula?
3. Draw a molecule of glycerol and circle the –OH (hydroxyl) groups. Give the molecular formula for glycerol.
4. List three differences between saturated fatty acids and unsaturated fatty acids.
5. How are triglycerides and phospholipids similar? Different?
6. Name two examples of steroids.
7. Complete the equations: \_\_\_\_\_ fatty acids + \_\_\_\_\_ glycerol  $\rightarrow$  1 \_\_\_\_\_ + 3 \_\_\_\_\_

8. Sketch a hydrocarbon molecule that is a straight chain, containing five carbon atoms and twelve hydrogen atoms, molecular formula  $C_5H_{12}$ .

9. Now sketch a shorter hydrocarbon chain, with only four carbon atoms. What is the molecular formula of this molecule?

10. Sketch another five-carbon hydrocarbon, but this time include one double bond. What is the molecular formula of this molecule?